



**“OBSERVATION AND MODELING OF MEANDERING ATMOSPHERIC JET STREAMS  
ON SATURN, AND COMPARISON TO A MEANDERING GULF STREAM”**

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Hampton University

**Monday, January 28, 2013**  
3:30 PM

***Room 1202, Engineering and Computational Sciences Building***

Abstract

Meandering geophysical jets are prevalent in oceans and atmospheres of planets. I will present two meandering atmospheric jet streams of Saturn, nicknamed the “Hexagon” and the “Ribbon”. I will then present observations of those features from NASA's Cassini mission to Saturn. I will follow this by showing my atmospheric general circulation modeling to understand the features. I will also give a preview of very recent Saturn observations.

Biography

Dr. Kunio M. Sayanagi is an Assistant Professor of Planetary Science at Hampton University. Dr. Sayanagi earned his B.S. in Liberal Arts with emphases in Physics and Applied Math from Juniata College in Huntingdon, PA, and M.S. and Ph.D. degrees in Physics from the University of Arizona in Tucson, AZ. Before arriving at Hampton University, he held research positions at the University of Louisville in Louisville, KY; California Institute of Technology in Pasadena, CA; and the University of California Los Angeles in Los Angeles, CA. He has also served as a panelist on the 2009-2011 Planetary Decadal Survey by the National Research Council of the United States National Academies and made recommendations to NASA and NSF on the planetary science research priorities in the 2013-2022 decadal period. He has also participated in the planning of the joint NASA-ESA Europa-Jupiter System Mission.

*Reception before seminar at 3:00 PM*